

Specifications for a Composite Plate Saw

NASA Langley Research Center is in need of a composite plate saw. The composite plate saw will be used by the Fabrication Section of the Engineering Division for making test specimens for the testing of composite samples for the evaluation of both mechanical and structural properties. The test specimens must be able to come straight off the saw to your test equipment. It is critical that sample preparation methodology maintains parallelism, good surface characteristics, prevents micro cracking, minimizes cutting marks and minimizes heat generation. The specifications for a composite plate saw are as followed:

Fully enclosed frame

Slatted work table

Engraved position reference

Computer based control manual

Motorized and programmable system that automatically cut multiple specimens without user intervention

Variable speed traverse

Variable speed head

Recirculation coolant system with filtration

Electronic programmable fence mechanism with a pneumatic clamping for accurate cut

Maintain parallelism better than .001 inch/L

Stainless Steel work enclosure

4 inch standard port for optional dust and mist extraction

Can accept sheet size up to 4 feet by 4 feet, up to 2.160 inches thick.

Can cut variable widths samples down to a ¼ inch.

Can accept cutting wheel diameters of 10 inch to 12 inch

Include shipping, installation and training.